Practice For use with pages 168-173

Name the cross products of the proportion. I wood 02 hast not remained and revO whole .

1.
$$\frac{n}{11} = \frac{40}{55}$$

2.
$$\frac{4}{9} = \frac{1}{x}$$

2.
$$\frac{4}{9} = \frac{1}{x}$$
 3. $\frac{1.8}{1.9} = \frac{b}{3.8}$

4.
$$\frac{a+6}{21} = \frac{4}{7}$$

5.
$$\frac{5x}{x+1} = \frac{30}{9}$$

6.
$$\frac{2.2}{3.3} = \frac{a-2}{a-1}$$

Solve the proportion.

7.
$$\frac{3}{5} = \frac{21}{m}$$

8.
$$\frac{12}{7} = \frac{60}{d}$$

7.
$$\frac{3}{5} = \frac{21}{m}$$
 8. $\frac{12}{7} = \frac{60}{d}$ **9.** $\frac{24}{x} = \frac{48}{60}$

10.
$$\frac{5}{7} = \frac{3w}{21}$$

11.
$$\frac{2w}{16} = \frac{30}{80}$$

12.
$$\frac{2z}{24} = \frac{6}{8}$$

13.
$$\frac{8}{9} = \frac{30+a}{45}$$

14.
$$\frac{9-y}{44} = \frac{5}{22}$$

14.
$$\frac{9-y}{44} = \frac{5}{22}$$
 15. $\frac{26}{15} = \frac{104}{70-w}$

16.
$$\frac{35}{16} = \frac{c - 8}{2}$$

16.
$$\frac{35}{16} = \frac{c-8}{2}$$
 17. $\frac{1}{9} = \frac{a}{a+24}$ **18.** $\frac{2}{n} = \frac{14}{n+30}$

18.
$$\frac{2}{n} = \frac{14}{n+30}$$

Practice 3.7 Practice For use with pages 176–181

FRECLICE commune for use with pages 168-173

3.6

Use a proportion to answer the question.

1. What percent of 125 is 25?

2. What percent of 70 is 14?

3. What number is 15% of 80?

4. What number is 65% of 180?

5. 3 is 2% of what number?

6. 384 is 64% of what number?

a. How many total sayis are in one panely

Use the percent equation to answer the question.

7. What percent of 64 is 16?

8. What percent of 160 is 128?

- **9.** What number is 12% of 225?
- **10.** What number is 85% of 360?

11. 4.8 is 8% of what number?

12. 25.8 is 86% of what number?

Find the percent. Round your answer to the nearest whole percent when necessary.

13. \$6 tip for a \$40 dinner

- **14.** \$8.10 tax on an item priced at \$135
- **15.** 46 musicians out of 230 people
- **16.** 18 action movies out of 45 movies

LESSON 4.3

Practice

For use with pages 225-232

Find the x-intercept and the y-intercept of the graph of the equation. A graph Mail 1888

1.
$$x + y = 1$$

0000 $\frac{1}{2}$

0000 $\frac{1}{2}$

0000 $\frac{1}{2}$

0000 $\frac{1}{2}$

2.
$$x - y = -5$$

3.
$$6x - 3y = -3$$

4.
$$5x + 10y = 30$$

5.
$$9y - 5x = 20$$

6.
$$8x - 2y = 16$$

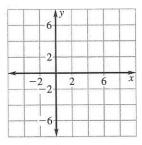
7.
$$7x + 8y = 18$$

8.
$$2y - 12x = -6$$

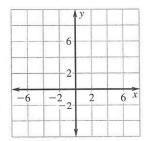
9.
$$2x - 0.5y = 8$$

Draw the line that has the given intercepts.

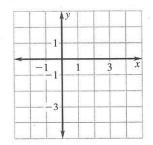
y-intercept: 4



y-intercept: 6



y-intercept: -3



Practice 5.5 For use with pages 318-324

Write an equation of the line that passes through the given point and is parallel to the given line.

1.
$$(4,7), y = 5x - 3$$

1.
$$(4,7), y = 5x - 3$$
 2. $(3,-2), y = \frac{2}{3}x + 1$ **3.** $(-6,1), 4x + y = 7$

3.
$$(-6, 1), 4x + y = 7$$

4.
$$(-5, -5)$$
, $6x - y = 1$

5.
$$(0, -8)$$
, $8x + 4y = 5$

5.
$$(0, -8), 8x + 4y = 5$$
 6. $(-9, 11), 5x - 10y = 3$

Write an equation of the line that passes through the given point and is perpendicular to the given line.

7.
$$(1, -1), y = 3x + 2$$

8.
$$(5,0), y = \frac{2}{3}x - 4$$

8.
$$(5,0), y = \frac{2}{3}x - 4$$
 9. $(3,-7), y = -\frac{1}{5}x + 1$

10.
$$(-9, 2), 10x - 5y = 6$$

11.
$$(10, -11), -2x + 5y = 1$$
 12. $(-4, -8), 8x + 3y = 7$

12.
$$(-4, -8)$$
, $8x + 3y = 7$

Determine which of the following lines, if any, are parallel or perpendicular.

13. Line
$$a: y = 8x - 5$$
, Line $b: y = \frac{1}{8}x + 1$, Line $c: 8x + y = 2$

14. Line
$$a: y = -2x + 5$$
, Line $b: 2y - x = 3$, Line $c: 2x + y = 1$

15. Line a:
$$6x + 2y = 5$$
, Line b: $y = \frac{1}{3}x - 4$, Line c: $y = -3x + 5$

Practice LESSON 2.5 For use with pages 96-101

Use the distributive property to write an equivalent expression.

1.
$$5(x + 11)$$

2.
$$3(x-12)$$

$$-4(x+8)$$

4.
$$9(2x+1)$$

5.
$$(x-7)(-10)$$

6.
$$(4x + 3)5$$

7.
$$x(4x-1)$$

8.
$$2x(x-1)$$

9.
$$-x(5x+2)$$

Identify the terms, like terms, coefficients, and constant terms of the expression.

10.
$$-8 + 2x + 5 + 11x$$

11.
$$4x^2 + 1 - 3x^2 + 5$$

12.
$$7y^2 - 6 + 3y^2 - 15$$

13.
$$3xy + 5 - 2xy + 10$$

Simplify the expression.

14.
$$6 + 10x + 3$$

15.
$$2(3x+1)+4x$$

16.
$$6(5-x)+12x$$

17.
$$7(x-1)-5$$

18.
$$8x + 3(2x - 1)$$

18.
$$8x + 3(2x - 1)$$
 19. $-2(x + 4) - 3$

20.
$$11x - (x + 7)$$

21.
$$9 - 2(x - 4)$$

22.
$$7x - 3(4 - 2x)$$